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Gallium

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Gold

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Graphite

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Hydrogen

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Nickel

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Nitrogen

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Noble gases

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Rhodium

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Ruthenium

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Silicon

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Sulphur

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Zirconium

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Compounds (non-molecular solids)

Aluminum oxide

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Gallium arsenide

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Magnesium oxides

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Niobium carbide

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Niobium oxide

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Titanium oxide

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Molecules

Alkanes

J.K. Simons, S.P. Frigo, J.W. Taylor and R.A. Rosenberg, Adsorption of saturated hydrocarbons on the Si(111)-7 × 7 surface studied by photoelectron and photon stimulated desorption spectroscopies 346 (1996) 21

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Alkynes

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Carbon monoxide

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J. Vaari, J. Lahtinen and P. Hautojärvi, A bimetallic Ru–Co surface prepared by $Ru_3(CO)_{12}$ adsorption on Co(0001) 346 (1996) 11

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Carbonyl

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Carbonyls

A. Sandell, J. Libuda, M. Bäumer and H.-J. Freund, Metal deposition in adsorbate atmosphere: growth and decomposition of a palladium carbonyl-like species 346 (1996) 108

Deuterium

W. Hayami, R. Souda, T. Aizawa, S. Otani and Y. Ishizawa, Structural analysis of NbC(111)–O and NbC(111)–D surfaces 346 (1996) 158

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Hydrogen

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Hydrogen sulphide

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Oxygen

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Water

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PHYSICAL STATE

Surfaces

Amorphous surfaces

D. Klyachko, P. Rowntree and L. Sanche, Oxidation of hydrogen-passivated silicon surfaces induced by dissociative electron attachment to physisorbed H_2O 346 (1996) L49

Polycrystalline surfaces

J.A. Leiro and M.H. Heinonen, Surface plasmons in NiGa and CoGa alloys 346 (1996) 73

Single crystal surfaces

M.A. Kulakov, G. Henn and B. Bullemer, SiC(0001)3×3–Si surface reconstruction – a new insight with a STM 346 (1996) 49

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Low index single crystal surfaces

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Vicinal single crystal surfaces

Y. Song and R. Gomer, Diffusion of oxygen on the Re($20\bar{2}1$) plane 346 (1996) 243

Surface defects

V.A. Ukraintsev and J.T. Yates, Jr., The role of nickel in Si(001) roughening 346 (1996) 31

Interfaces

Single crystal epitaxy

G.W. Anderson, M.C. Hanf, X.R. Qin, P.R. Norton, K. Myrtle and B. Heinrich, Epitaxial growth of Fe on sulphur-passivated GaAs(100): a method for preventing As interdiffusion 346 (1996) 145

Solid–gas interfaces

J.K. Simons, S.P. Frigo, J.W. Taylor and R.A. Rosenberg, Adsorption of saturated hydrocarbons on the Si(111)-7×7 surface studied by photoelectron and photon stimulated desorption spectroscopies 346 (1996) 21

H. Asada, M. Takechi and H. Seiyama, Displacement transition in Kr/cyclohexane adsorbed on graphite: what is the driving force? 346 (1996) 294

Adatoms

M.A. Kulakov, G. Henn and B. Bullemer, SiC(0001)3×3–Si surface reconstruction – a new insight with a STM 346 (1996) 49

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Clusters

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Particulate composites

Powders

H. Asada, M. Takechi and H. Seiyama, Displacement transition in Kr/cyclohexane adsorbed on graphite: what is the driving force? 346 (1996) 294

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Surfaces and / or films

Semiconducting surfaces

K. Kakitani, R. Sakagami, T. Kawamura, Y. Yagi and A. Yoshimori, Step-induced short range order on Si(100) reconstructed surfaces 346 (1996) 55

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Metal–semiconductor magnetic thin film structures

G.W. Anderson, M.C. Hanf, X.R. Qin, P.R. Norton, K. Myrtle and B. Heinrich, Epitaxial growth of Fe on sulphur-passivated GaAs(100): a method for preventing As interdiffusion 346 (1996) 145